

Appendix 7

RDB invertebrate species records for the Catfield Fen area obtained from the National Biodiversity Network

In order to better understand the invertebrate community of SSSI Unit 3 the RSPB requested records from the National Biodiversity Network. These resulted in an impressive species list, as set out in the table below. The information will help inform management and monitoring requirements of the site.

Sutton Fen	Catfield Fen	Ant Valley	Order	Group	Scientific name	English name	Status	Ecology notes	Last recorded	Distribution notes	Ant only
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Agabus (Gaurodytes) striolatus</i>		Vulnerable	Temporary, shaded pools in carr in the Broads. Cannot fly.	2004	Confined to Norfolk	
No	No	Yes	Insecta	Beetles (Coleoptera)	<i>Agabus labiatus</i>		Near Threatened		2007		
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Bidessus unistriatus</i>	a diving beetle	Critically Endangered		2007		
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Dryops anglicanus</i>		Near Threatened	Wet veg at edge of fen and carr. Often with tussocks	2014	15 UK sites	
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Dytiscus dimidiatus</i>		Near Threatened	Rich fen veg, drains and ponds	2003		
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Enochrus nigrinus</i>		Near Threatened	Mesotrophic base rich fens	2003		
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Graphoderus bilineatus</i>		Extinct		1906	Probably no longer present at Catfield	
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Graphodorus cinereus</i>		Vulnerable	Vegetated pools and ditches	2014	3 UK sites. Declining.	
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Gyrinus suffriani</i>		Vulnerable	Edges of reedbeds, shallow runnels, dykes	2014	Handful UK sites.	
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Haliphus (Liaphlus) variegatus</i>		Vulnerable		2007		
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Helochares obscurus</i>		Vulnerable	Pools in sphagnum	2014	11 UK sites	
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydraena palustris</i>		Near Threatened	Temporary, stagnant water with marginal vegetation.	2014	14 UK sites	
No	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydrochus brevis</i>		Near Threatened	Weedy pools and thick fen veg in shade and mud	2014	25 UK sites	
No	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydrochus crenatus</i>		Near Threatened	Mossy margins of ponds and in rich fens	2004		
No	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydrochus elongatus</i>		Near Threatened		2007		
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydrochus megaphallus</i>		Vulnerable	Shallow pools in sphagnum	2014	5 UK sites	
No	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydrochus ignicolis</i>		Near Threatened	Thick veg at edge of dykes	2014	18 UK sites	
No	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydrophilus piceus</i>		Near Threatened	Dykes with thick submergent veg	2014	Fairly widespread but declining	

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No	No	Yes	Insecta	Beetles (Coleoptera)	<i>Hydroporus longicornis</i>		Near Threatened				
No	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydroporus glabriusculus</i>		Vulnerable	Flooded moss carpets	2004	12 UK sites	
Yes	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Hydroporus scalesianus</i>		Vulnerable	Often in neutral or base-rich water, but associated with acidic conditions in Holland. Cannot fly, and is unable to colonise new sites.	2014	16 UK sites	
No	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Laccornis oblongus</i>		Near Threatened	Old fen systems shallow mossy areas of base rich fen	2003		
No	Yes	Yes	Insecta	Beetles (Coleoptera)	<i>Limnebius aluta</i>		Near Threatened	Edges of pools and muddy ditches, wet moss, litter in fens.	2014	21 UK sites	
No	No	Yes	Insecta	Beetles (Coleoptera)	<i>Limnoxenus niger</i>		Near Threatened				
Yes	No	Yes	Insecta	Beetles (Coleoptera)	<i>Quedius (Quedius) balticus</i>		Endangered	Needs litter.			
Yes	No	Yes	Insecta	Beetles (Coleoptera)	<i>Stenus (Stenus) proditor</i>		Data Deficient				
Yes	No	Yes	Insecta	Bees, ants, and wasps (Hymenoptera)	<i>Odynerus (Spinicoxa) simillimus</i>	fen mason-wasp	Endangered	A mason wasp. Requires bare ground in wetlands.	2014	Confined to <10 coastal sites in Norfolk and Suffolk	
Yes	No	Yes	Insecta	Bees, ants, and wasps (Hymenoptera)	<i>Trogus lapidator</i>		Data Deficient		2007	Only recent UK record - Catfield Fen	Yes
Yes	No	Yes	Insecta	Caddis Flies (Trichoptera)	<i>Agrypnia picta</i>		Data Deficient		2009	Incorrect record? No Broads records, very rare nationally.	
Yes	No	Yes	Insecta	Caddis Flies (Trichoptera)	<i>Erotesis baltica</i>		Vulnerable	Not well known, but no special requirements mentioned.	2007	Very scarce 7 site nationally	
Yes	Yes	Yes	Insecta	Dragonflies (Odonata)	<i>Aeshna isosceles</i>	Norfolk Hawker	Endangered	Should only need general fen management. Threatened by sea level rise.	2014	Confined to East Anglia	
Yes	Yes	Yes	Insecta	Dragonflies (Odonata)	<i>Coenagrion pulchellum</i>	Variable Damselfly	Near Threatened		2014	Widespread, increasing	
Yes	No	Yes	Insecta	Dragonflies (Odonata)	<i>Cordulia aenea</i>	Downy Emerald	Least concern		2010		
Yes	Yes	Yes	Insecta	Dragonflies (Odonata)	<i>Libellula fulva</i>	Scarce Chaser	Near Threatened	Pools or slow flowing rivers with not too much shade.	2007	Widespread SE England	
Yes	No	Yes	Mollusca	Molluscs	<i>Oxyloma (Oxyloma) sarsi</i>	slender amber snail	Vulnerable	Emergent vegetation at the edge of lakes and rivers. Could be threatened by over-grazing.	2007	Broads stronghold a few other sites	
Yes	No	Yes	Mollusca	Molluscs	<i>Segmentina nitida</i>	Shining Ram's-horn Snail	Endangered	Needs appropriate ditch management.	2014	Widespread but scarce S England	
Yes	No	Yes	Mollusca	Molluscs	<i>Vertigo moulinsiana</i>	Desmoulin's whorl snail	Vulnerable at European level		2007	Widespread SE England	
Yes	No	Yes	Insecta	Moths and Butterflies (Lepidoptera)	<i>Elachista pomerana</i>	Fen dwarf	Endangered	In <i>Calamagrostis</i> and probably other grasses in fens.	2014	3 sites in UK	

Sutton Fen	Catfield Fen	Ant Valley	Order	Group	Scientific name	English name	Status	Ecology notes	Last recorded	Distribution notes	Ant only
Yes	No	Yes	Insecta	Moths and Butterflies (Lepidoptera)	<i>Gelechia muscosella</i>	Grey sallow groundling	Near threatened	Catkins of <i>Salix</i> and <i>Populus</i> in wetlands	2008	5 UK sites	
Yes	Yes	Yes	Insecta	Moths and Butterflies (Lepidoptera)	<i>Limenitis camilla</i>	White Admiral	Vulnerable		2014	Widespread SE England	
Yes	Yes	Yes	Insecta	Moths and Butterflies (Lepidoptera)	<i>Papilio machaon</i>	Swallowtail	Near threatened	Feeds on Milk Parsley. This should be favoured by current management.	2014	Confined to Broads. Ant stronghold	
Yes	Yes	Yes	Insecta	Moths and Butterflies (Lepidoptera)	<i>Pelosia obtusa</i>	Small Dotted Footman	Endangered	Old, dense, uncut reedbeds. Some areas will need to be left uncut for this species, but they should not be allowed to become woodland.	2014	Confined to Ant Valley and Thurne valley. Big stronghold in Ant	
Yes	Yes	Yes	Insecta	Moths and Butterflies (Lepidoptera)	<i>Phragmataecia castaneae</i>	Reed Leopard	Vulnerable	In reed stems in permanently wet or seasonally flooded ground.	2014	2 UK sites. Ant valley stronghold	
Yes	No	Yes	Arachnida	Spiders	<i>Baryphyma gowerense</i>		Data Deficient		1988	A few sites in Wales. Only Ant valley in England	
Yes	No	Yes	Arachnida	Spiders	<i>Carorita paludosa</i>		Vulnerable	No recent British records, but unlikely to be found without intensive survey. Sympathetic fenland management should suit.	1990	Confined to Ant Valley	Yes
Yes	No	Yes	Arachnida	Spiders	<i>Clubiona juvenis</i>		Vulnerable	In fens and reedbeds, fresh or brackish.	2009	Confined to Broads	
Yes	No	Yes	Araneae	Spiders	<i>Theridion hemerobium</i>		Unclassified		2007	< 20 sites widely spaced	
Yes	No	Yes	Insecta	True bugs (Hemiptera)	<i>Calligypona reyi</i>		Data Deficient		2007	Incorrect record? No Broads records, very rare nationally.	
Yes	No	Yes	Insecta	True bugs (Hemiptera)	<i>Macrosteles oshanini</i>		Data Deficient		1988	Ant valley and one other UK site	
Yes	No	Yes	Insecta	True bugs (Hemiptera)	<i>Paraliburnia clypealis</i>		Data Deficient		2007	Confined to Ant valley	Yes
Yes	No	Yes	Insecta	True bugs (Hemiptera)	<i>Microvelia buenoi</i>		Nationally Rare		2007	< 10 sites all East Anglia	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Anopheles algeriensis</i>		Data Deficient		2007	5 UK sites	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Anticheta brevipennis</i>		Vulnerable	Prefers lush vegetation and ditches that have not been cleared for some time. Threatened by too much grazing.	2007	South England, very localised	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Calamoncosis aspistylina</i>		Data Deficient		2007	3 sites, other 2 in Hampshire and Warwickshire	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Cephalops perspicuus</i>		Near Threatened	Should benefit from general reedbed management.	1990	Very scarce, Broads, Suffolk coast, Pembroke coast	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Colobaea pectoralis</i>		Vulnerable	No specific needs mentioned.	1988	Confined to East Anglia	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Cryptonevra consimilis</i>		Vulnerable	No information in review.	2007	3 UK sites. (Ant, Chippenham, Wicken)	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Dolichopus laticola</i>	"Broads Dollifly"	Endangered	Not known, but no specific requirements mentioned	2007	Confined to Bure and Ant valley	

Sutton Fen	Catfield Fen	Ant Valley	Order	Group	Scientific name	English name	Status	Ecology notes	Last recorded	Distribution notes	Ant only
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Erioptera meijerei</i>		Vulnerable	General wetland management.	2007	Very scarce, a few sites Norfolk and a handful elsewhere	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Odontomyia angulata</i>		Endangered	Fens and shallow pools. Seasonal fluctuation might be important.	2007	4 UK sites	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Odontomyia argentata</i>		Vulnerable	Rotational ditch cleaning might be important.	2007	Confined to SE England, scarce	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Odontomyia ornata</i>		Vulnerable	Needs rotational ditch cleaning and shallow margins.	2007	Confined to SE England, scarce	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Parhelophilus consimilis</i>		Vulnerable		1988	Very rare, scattered sites nationally	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Pherbellia argyra</i>		Vulnerable	Wetlands, where it feeds on snails.	2008	<10 UK sites	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Platypalpus pygialis</i>		Data Deficient		2007	Only 1 UK record	Yes
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Psacadina zernyi</i>		Vulnerable	Wetlands, where it feeds on snails.	2007	<20 UK sites	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Pteromicra leucopeza</i>		Vulnerable	Shaded ponds and swamps. Feeds on snails.	2007	<10 UK sites	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Rhamphomyia breviventris</i>		Vulnerable	Perhaps in wet woodland and fens.	2007	Only UK site	Yes
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Scathophaga tinctinervis</i>		Vulnerable	No information in review.	2007	5 UK sites	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Stenomicra delicata</i>		Vulnerable	No information in review.	2007	Only UK site	Yes
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Achalcus nigropunctatus</i>		Unclassified		2007	Only UK site ever recorded	Yes
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Antichaeta analis</i>		Nationally Rare		2007	Very scattered <20 UK sites. Mostly Norfolk	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Ditrichophora nectens</i>		Unclassified		2007	Very scarce and scattered <10 sites.	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Hybomitra muelfeldi</i>		Nationally Rare		2007	Very scarce and scattered <10 sites.	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Notiphila subnigra</i>		Unclassified		2007	2 other UK sites (Norfolk coast and Dorset). A few in Wales.	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Ochthera manicata</i>		Nationally Rare		2007	Very scarce, Norfolk and Cambridgeshire	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Paradelphomyia czizekiana</i>		Unclassified		2007	New to UK, a couple of other sites too now	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Parydra undulata</i>		Unclassified		2007	New to UK, 1 other site in Cambridgeshire	
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Stenomicra cogani</i>		Nationally Rare		2007	< 10 sites widely spaced	

Sutton Fen	Catfield Fen	Ant Valley	Order	Group	Scientific name	English name	Status	Ecology notes	Last recorded	Distribution notes	Ant only
Yes	No	Yes	Insecta	True flies (Diptera)	<i>Tetanocera freyi</i>		Not classified		2007	< 20 sites widely spaced	